

Conventional Construction for the NOvA Far Detector

S. Dixon
All Experimenters Meeting

December 7, 2009



Overview

Two Construction Packages

- Site Prep Package
- Far Detector Building
- Ash River, Minnesota
 - ~30 miles south of International Falls
 - Last East-West Road in U.S.
- Cooperative Agreement
 - Between DOE and the University of Minnesota





Site





Site Preparation Package

- Site Preparation Package
 - Includes:
 - Wetland Mitigation
 - Construction of ~3.5 miles of all-weather access road
 - Excavation of Rock at Far Detector Building Site
 - Electric and Data/Communication Utilities
 - Permits/Authorizations:
 - Environmental Assessment Worksheet Final in December 2007
 - Validated Section 404 Permit December 2008
 - Wetland Credits Purchased January 2009
 - General Stormwater Permit May 2009
 - Notice To Proceed May 2009
 - University of Minnesota Building Permit June 2009
 (University is the Authority Having Jursidiction)

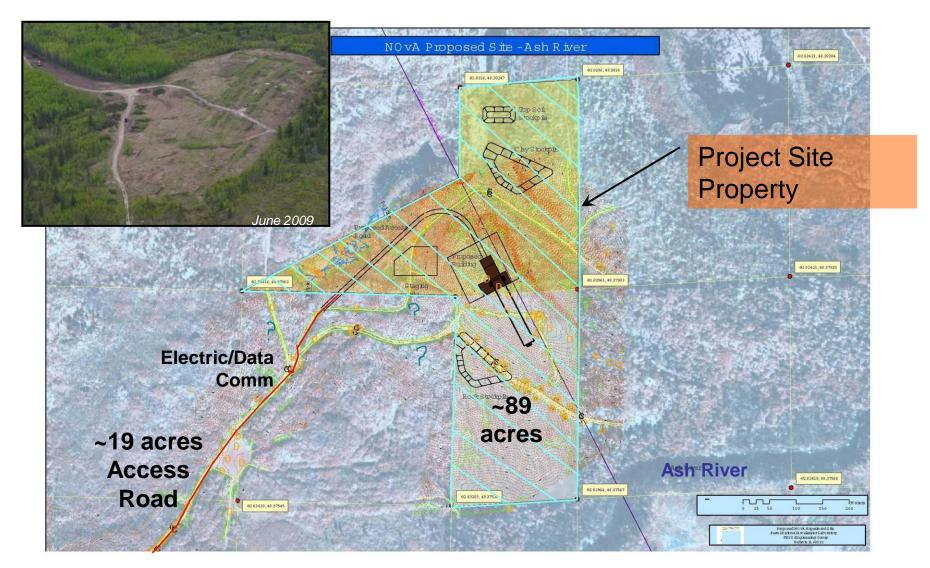


Cultural Resources





Ash River Site





Brightstar Road





Brightstar Road





Brightstar Road

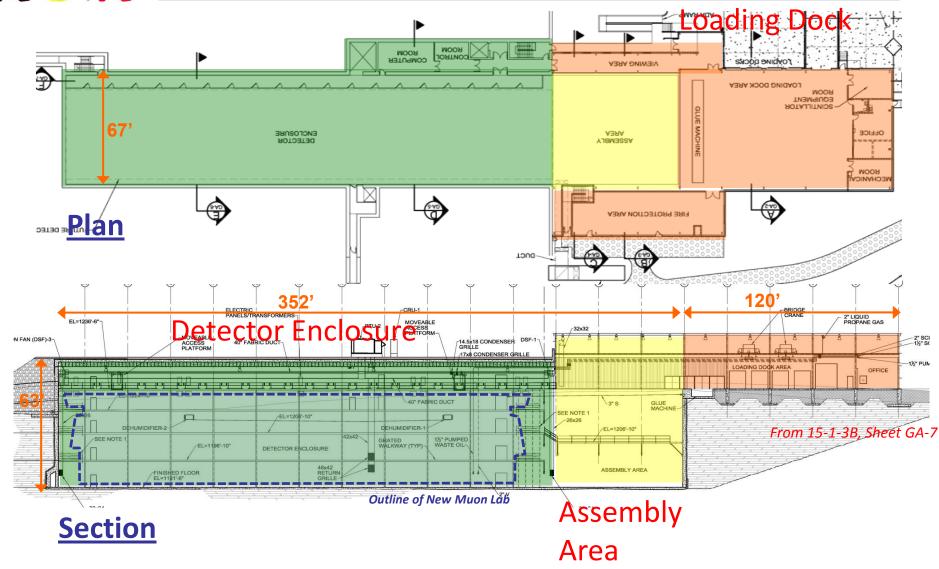




- WBS 2.1.2 Far Detector Building
 - Includes:
 - Below Grade Detector Enclosure/Assembly Area Concrete
 - At-Grade Service Building (Loading Dock, Offices, Mechanical Spaces)





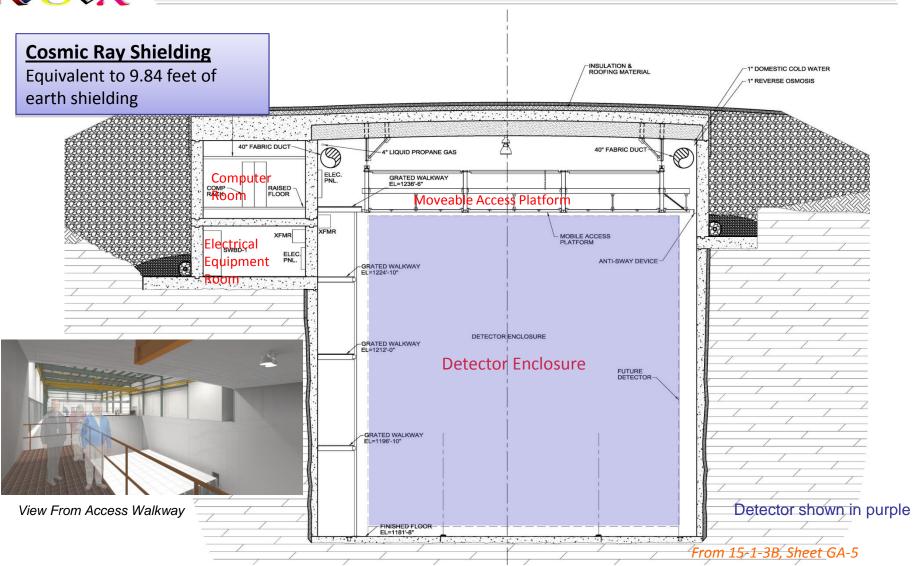






View From Viewing Area































Status

March 2009

Issued Documents for Proposal

April 2009

- Received six (6) proposals;
- Interviewed two (2) firms;

May 2009

- Groundbreaking
- Issued Notice to Proceed for Site Prep Package
- Received National Pollution Discharge Elimination System (NPDES) Permit

June 2009

- Received Building Permit for Site Prep Package
- Began work on Site Prep Package











































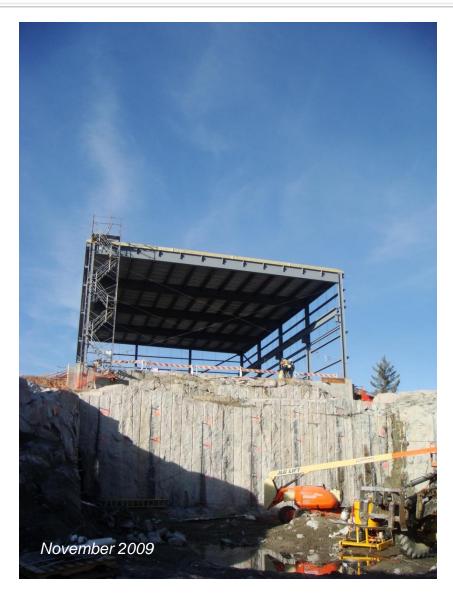




















What's Next

- Rock Excavation through Jan/Feb 2010
- Concrete Starts in April 2010
- Limited Occupancy in Fall of 2010
- Completion in Spring 2011
- Photo Site:
 - http://novaproject.shutterfly.com/
- Webcam:
 - http://www.ibeamsystems.com/private/nova/